

# Transportation Design FOR Communities

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Atlanta, GA  
May 11-12, 2006

## Transportation Design for Communities

*Hosted by the Center for Quality Growth and Regional  
Development at the Georgia Institute of Technology*

Module 5a: Case Study: Roswell

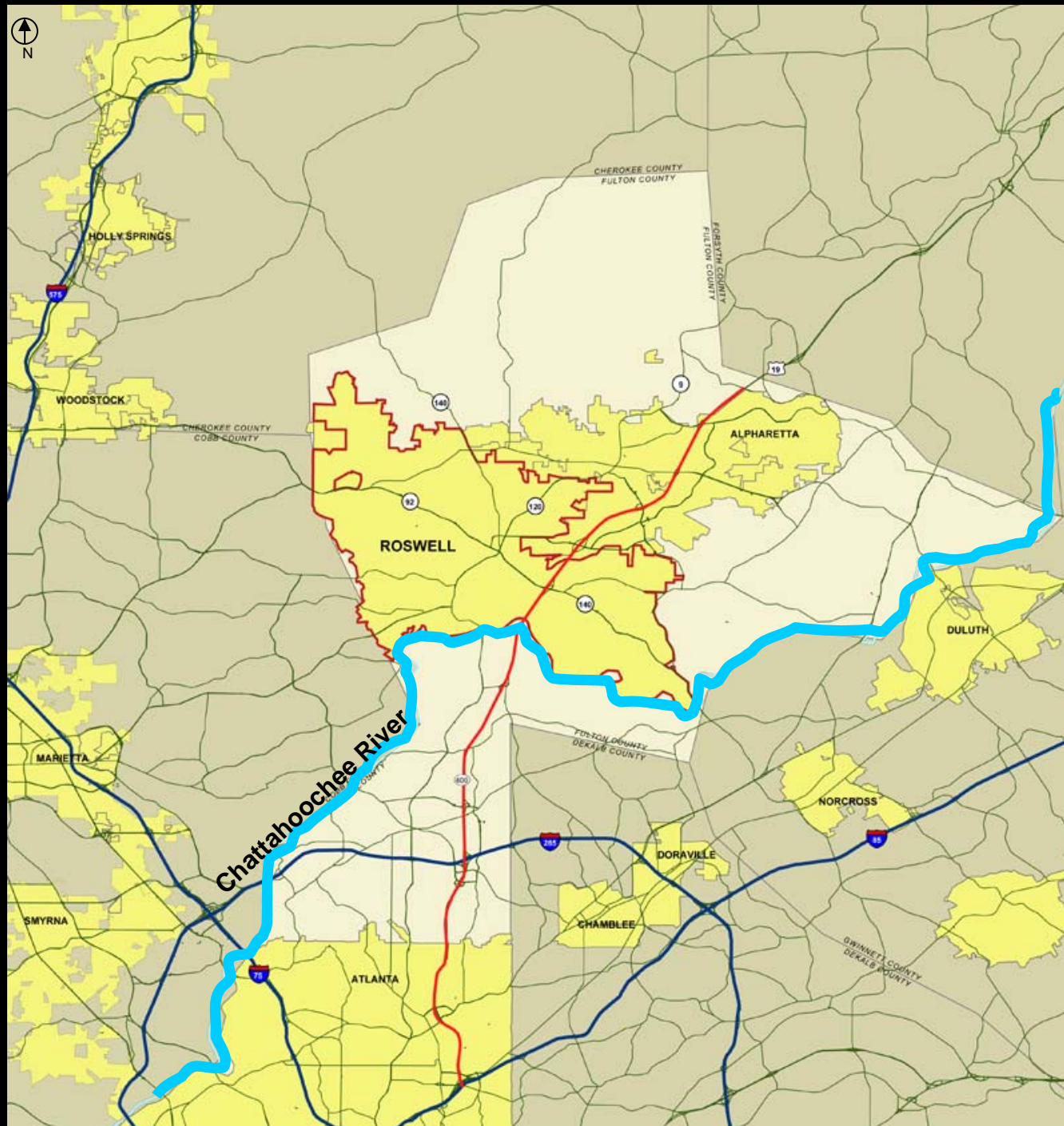
May 12, 2006 Atlanta, GA

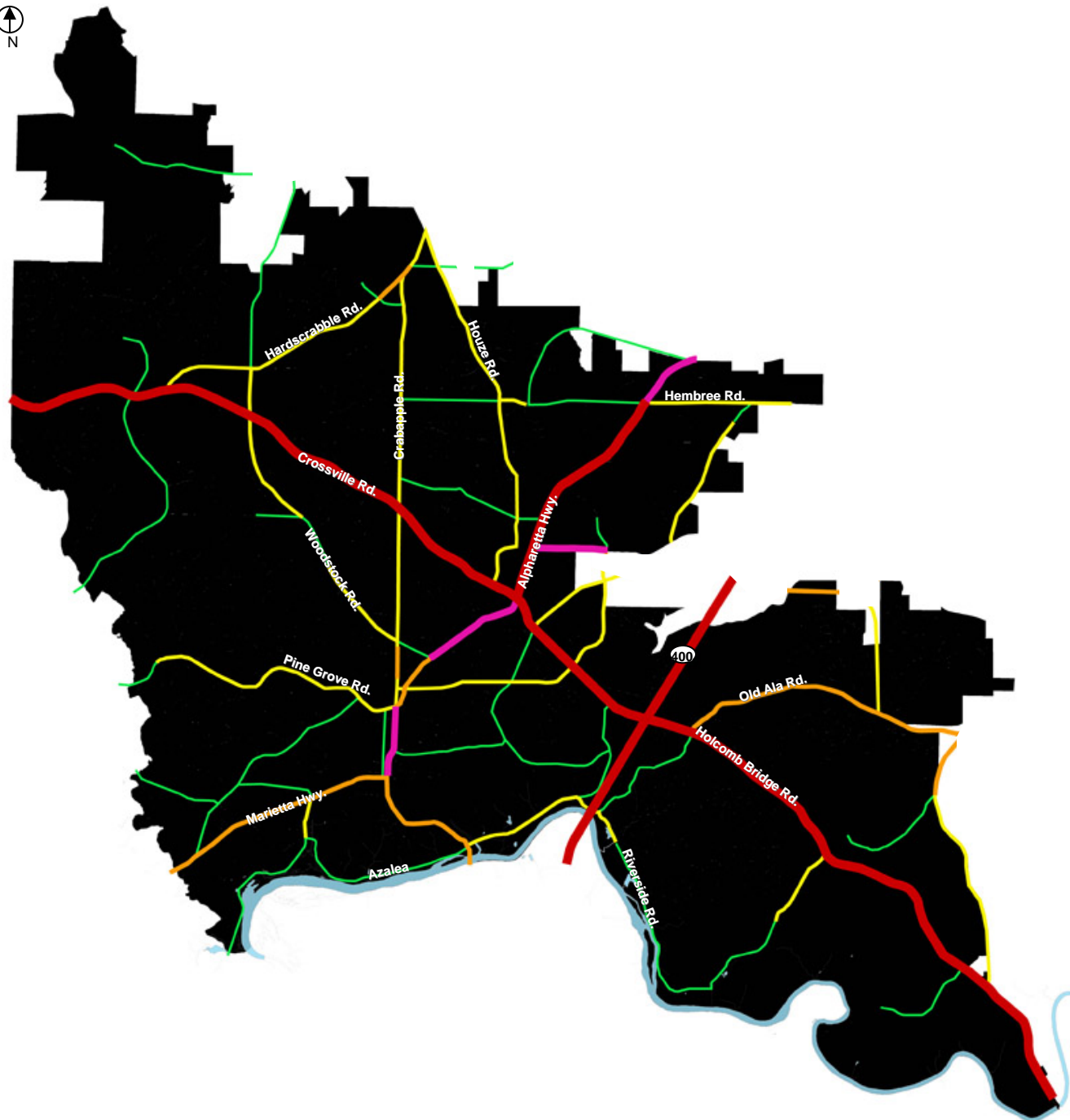
Instructor: Ed McKinney, AICP

Module 5a was an impromptu session stemming from audience interest in learning more about creating transportation solutions for suburban locations. This session looked at some of the results of the transportation work done by Glatting Jackson Kercher Anglin Lopez Rinehart, Inc in Roswell, Georgia.

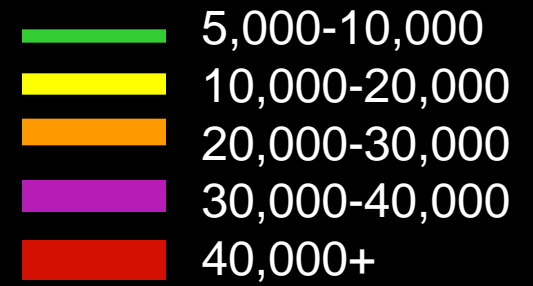
*Unless otherwise noted, all images are the property of Glatting Jackson Kercher Anglin Lopez Rinehart, Inc.*

# Regional Context





## Average Daily Trips (2005)



### “Hot Spots” Identified

- Old Alabama Road
- Houze Road
- Atlanta Street
- Holcomb Bridge @ GA 400

# Connectivity: Network



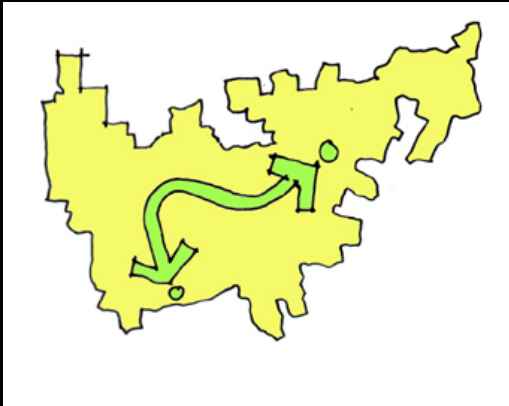


## Connectivity: Effective Network

44% of the Total  
Network is  
“Effective”

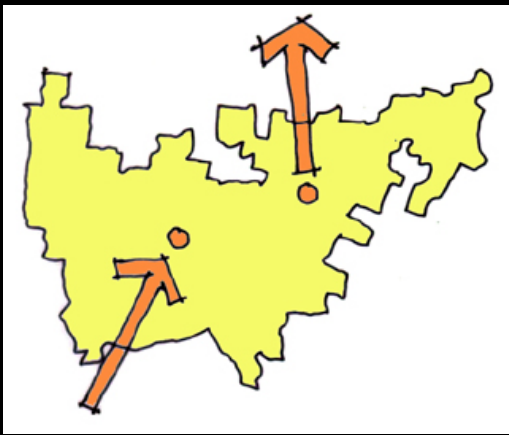


# Understanding of Circulation Issues



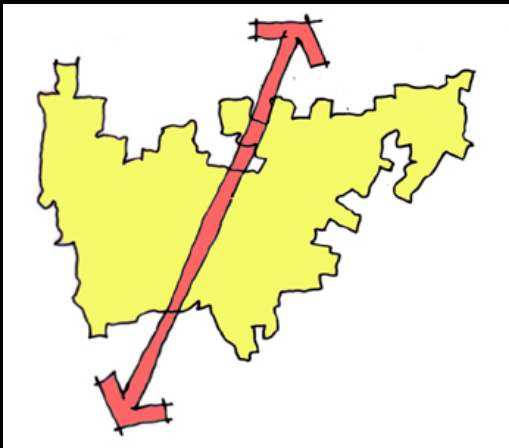
- **Internal Travel** – Preserve the capacity and quality of local streets for travel made entirely within the City.

**7%**



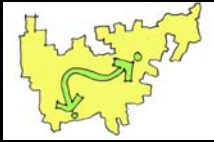
- **Local Travel** – Make selective, precisely targeted capacity improvements, on the City's own terms. for trips beginning in (by residents of) Roswell and trips ending in (by visitors to) Roswell.

**52%**



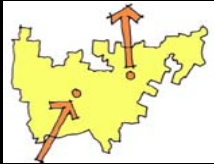
- **Through Travel** – For regional through trips - neither beginning nor ending in the City.

**41%**



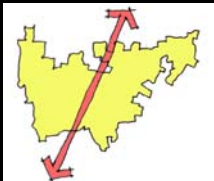
Trips Totally Within Roswell

7%



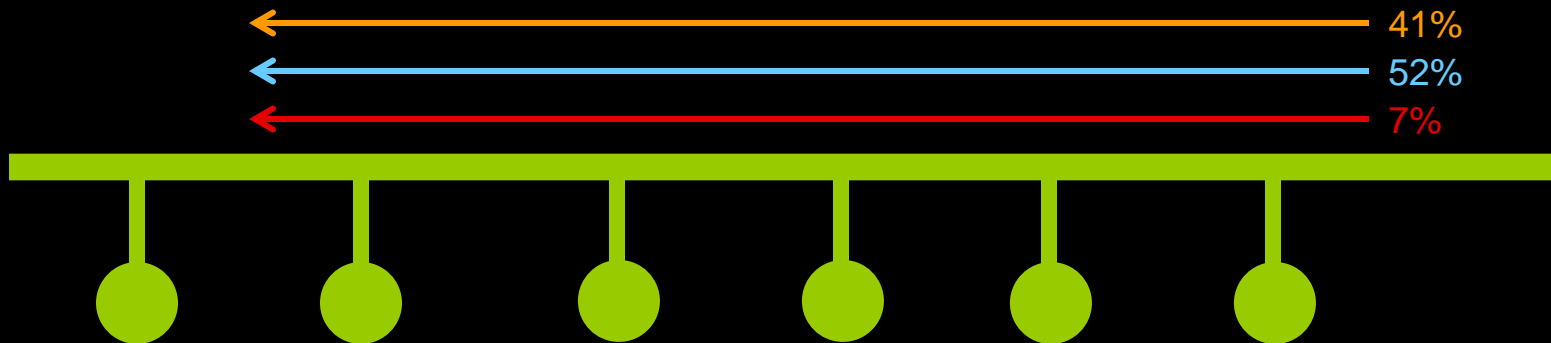
Trips That Start OR End in Roswell

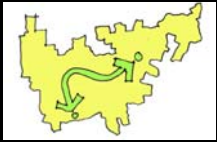
52%



Trips Through Roswell

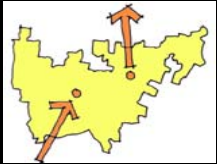
41%





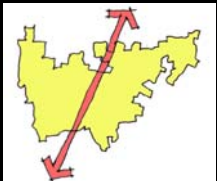
Trips Totally Within Roswell

7%



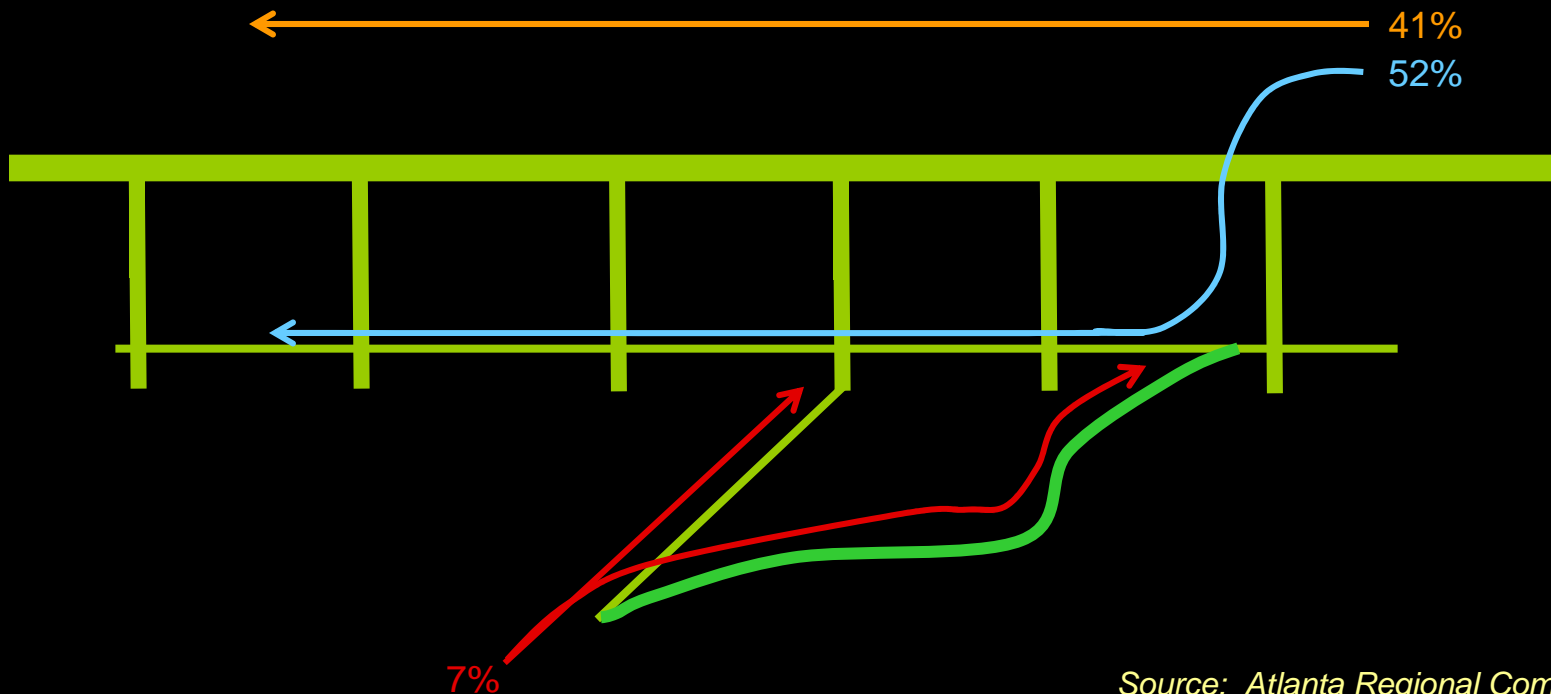
Trips That Start OR End in Roswell

52%



Trips Through Roswell

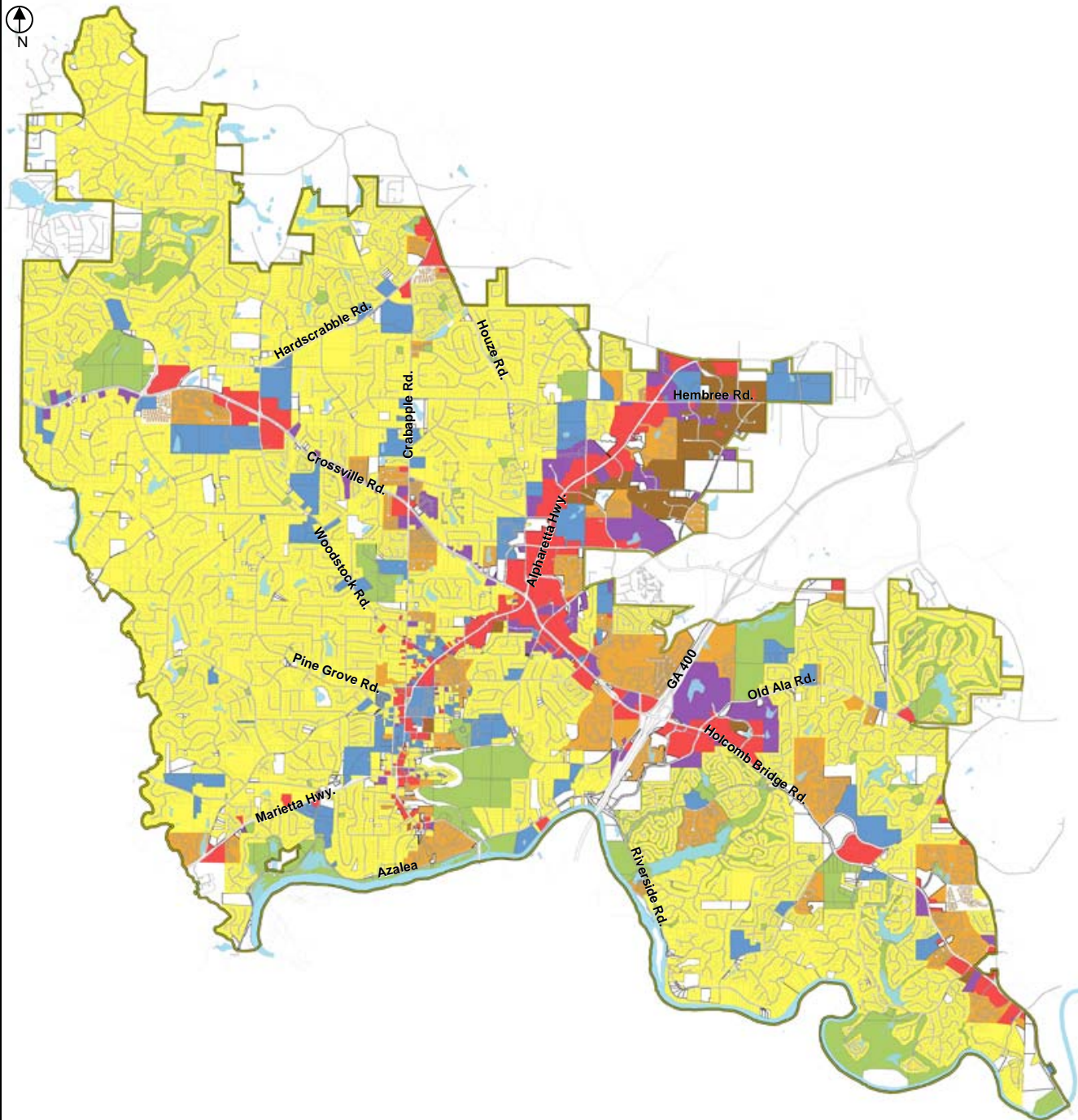
41%



Source: Atlanta Regional Commission

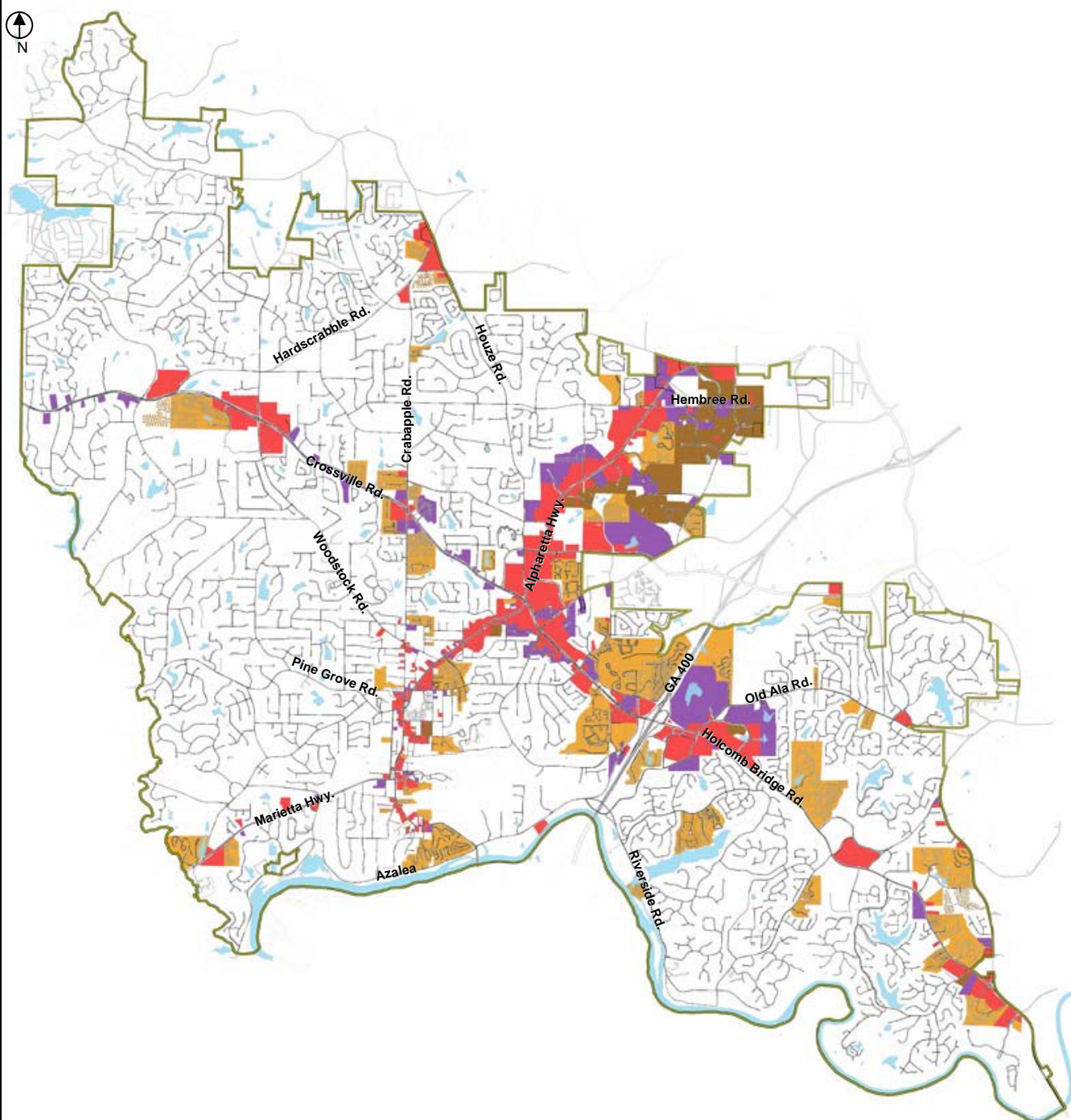


## Land Use:

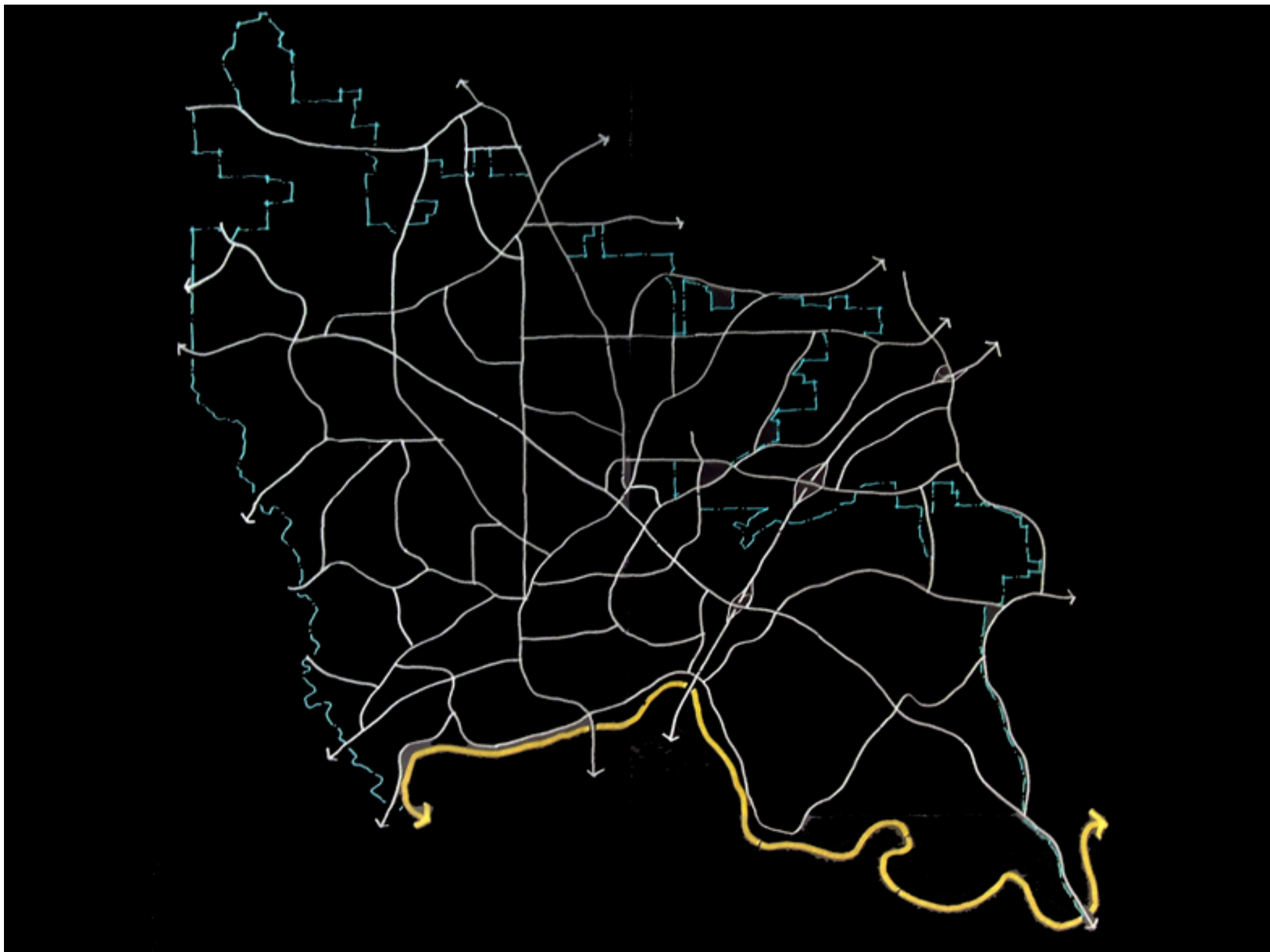


- Institutional
- Parks/Open Space
- Commercial
- Office
- Industrial
- Single-Family
- Multi-Family

# Land Use: Potential Change

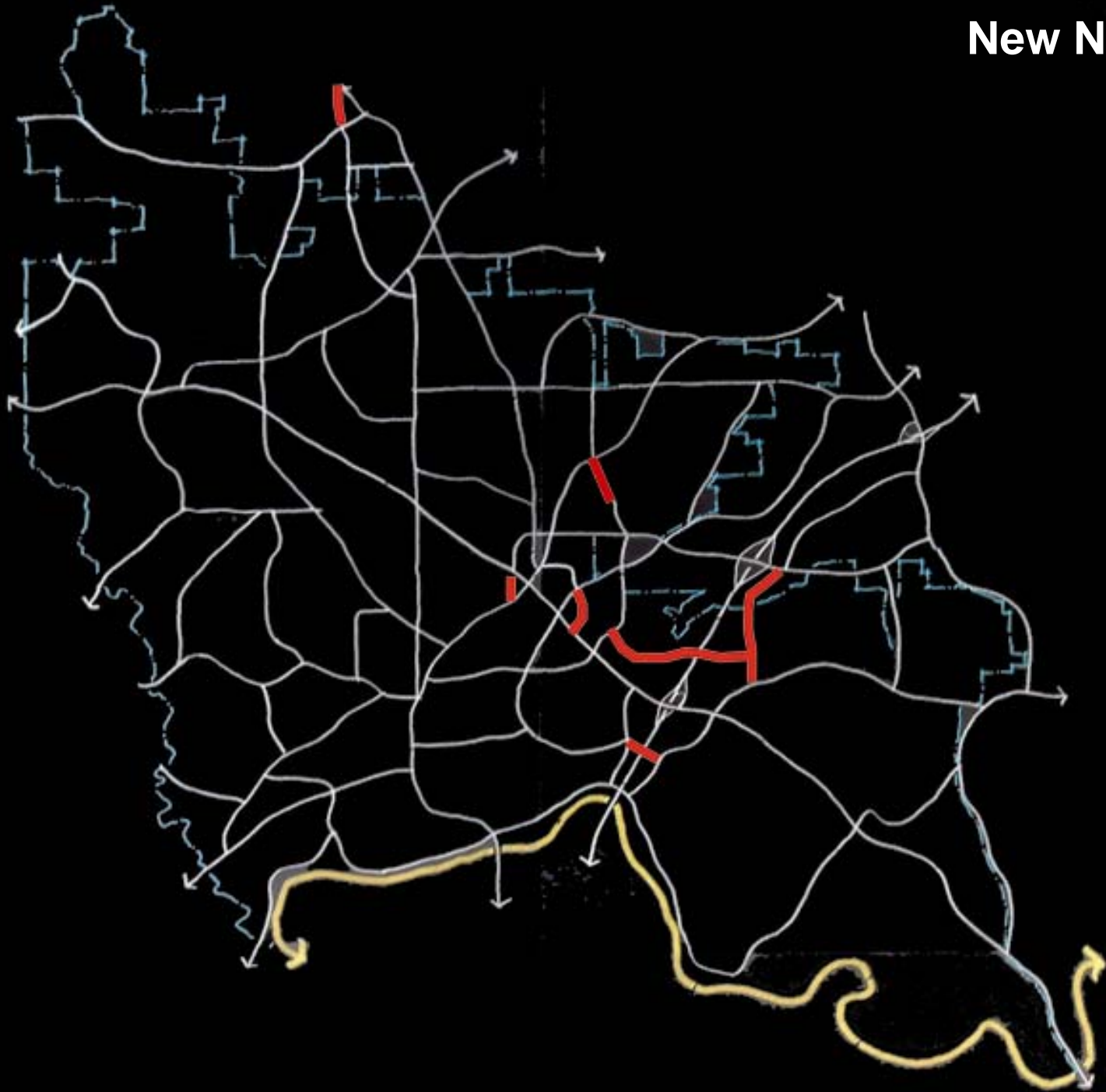


- Commercial
- Office
- Industrial
- Multi-Family Complex



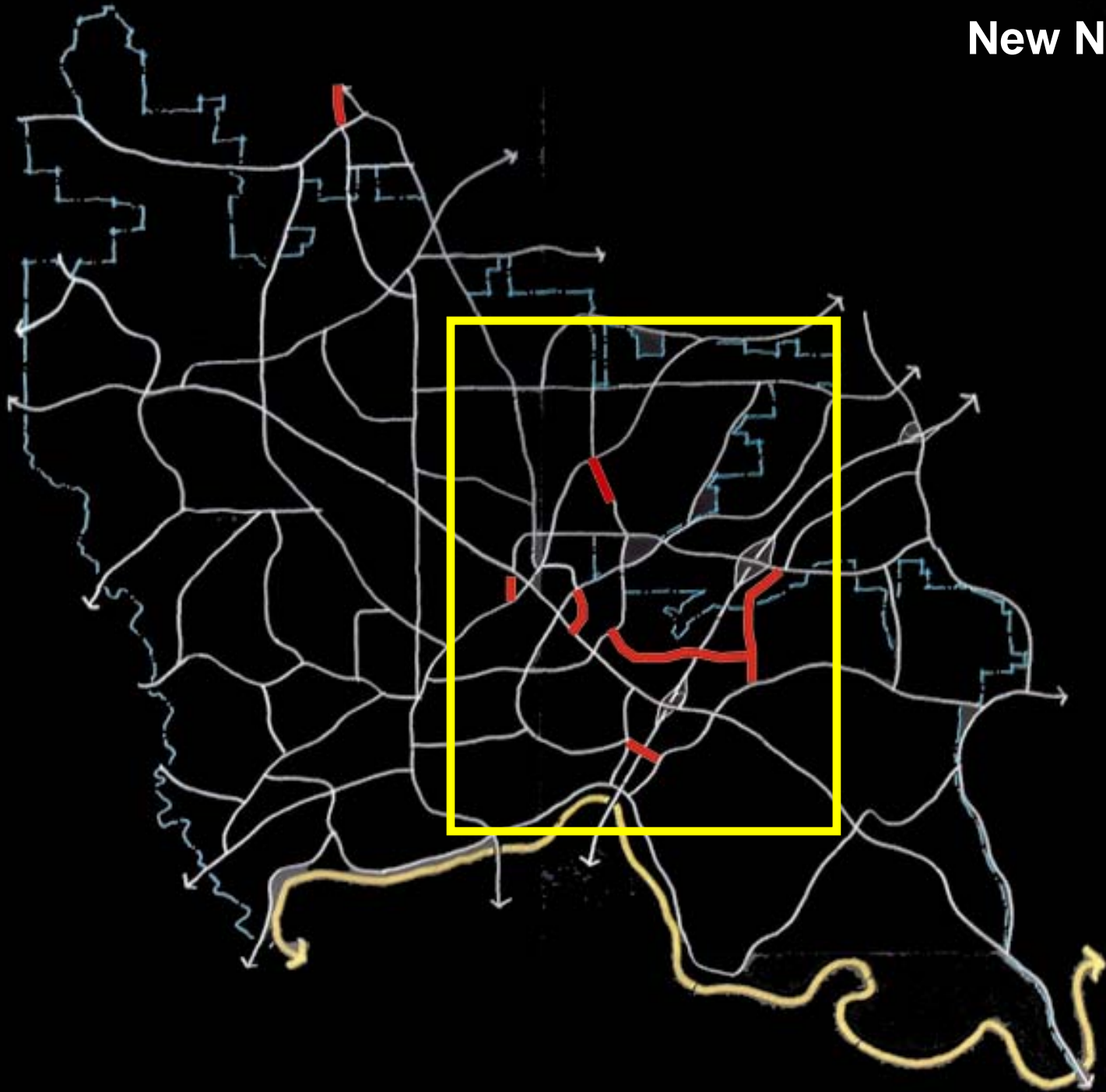


## New Network

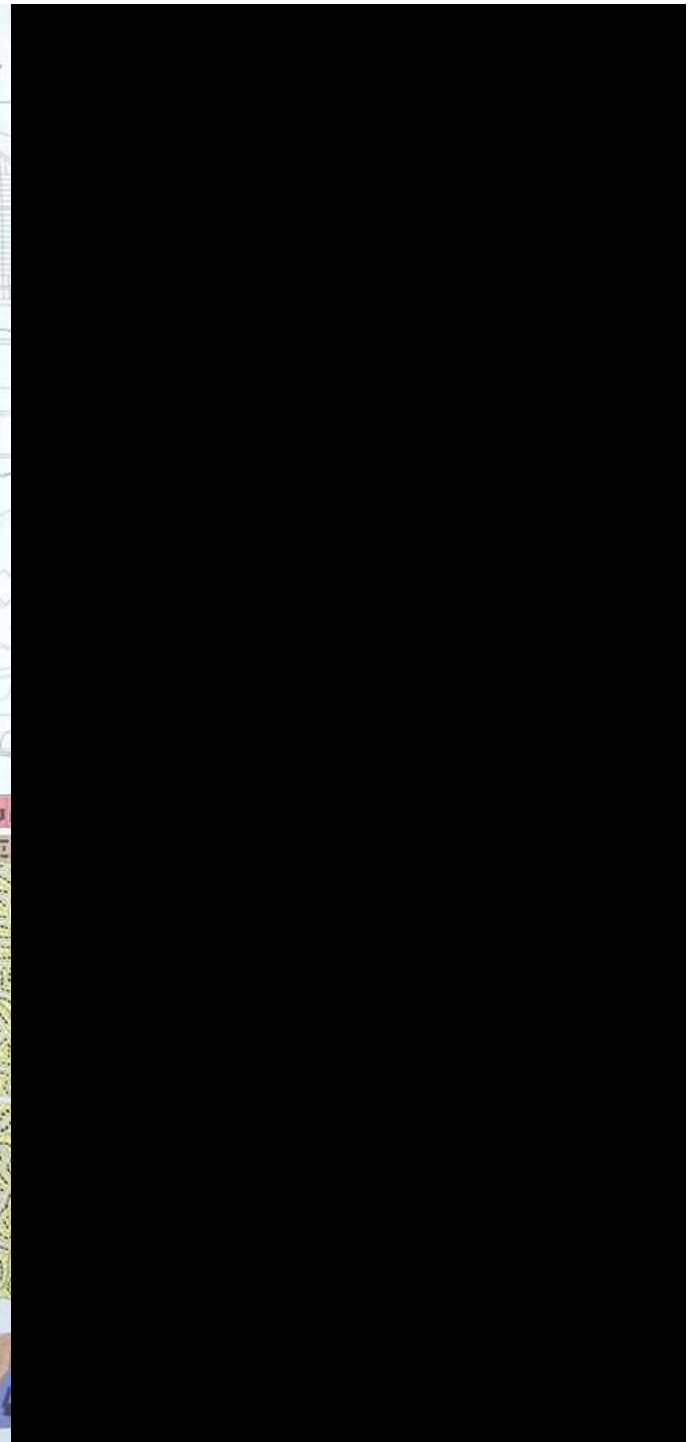
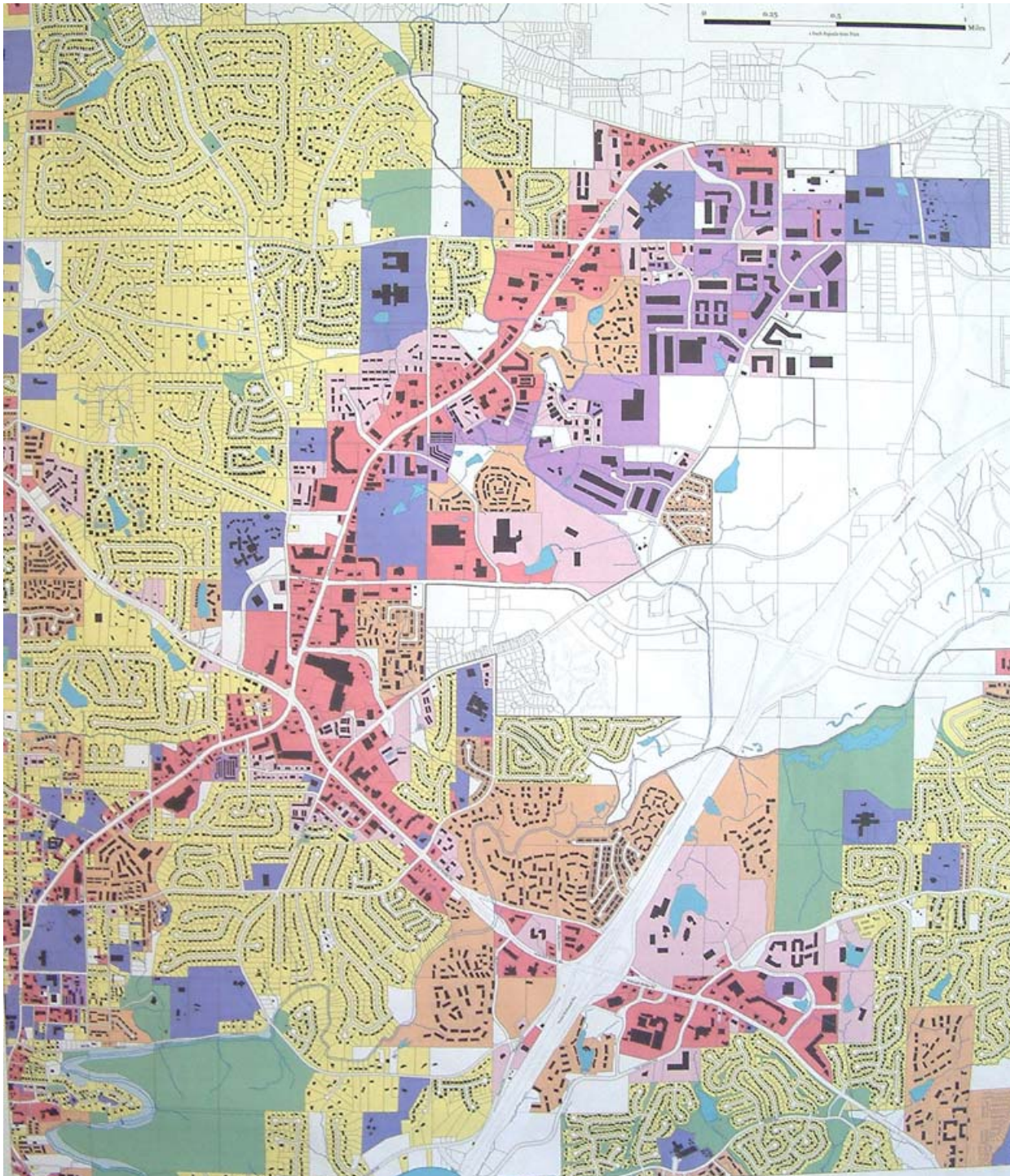


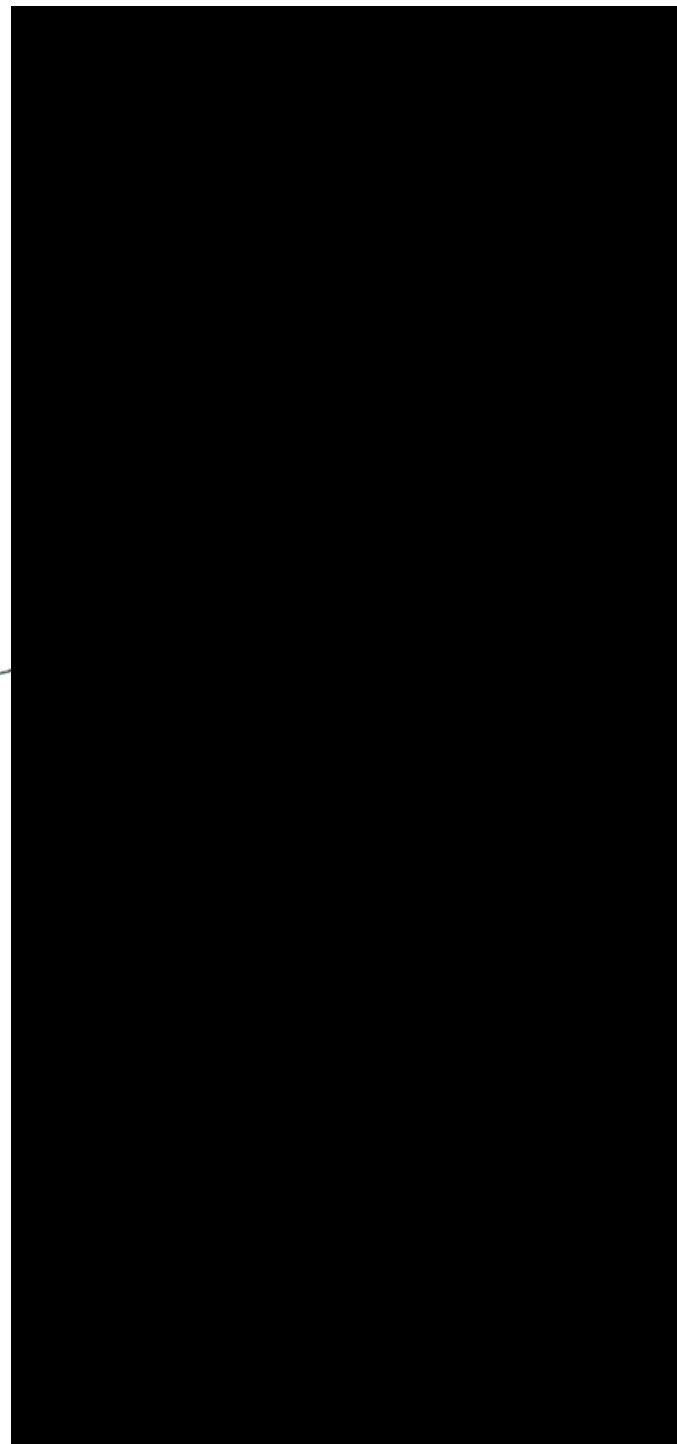
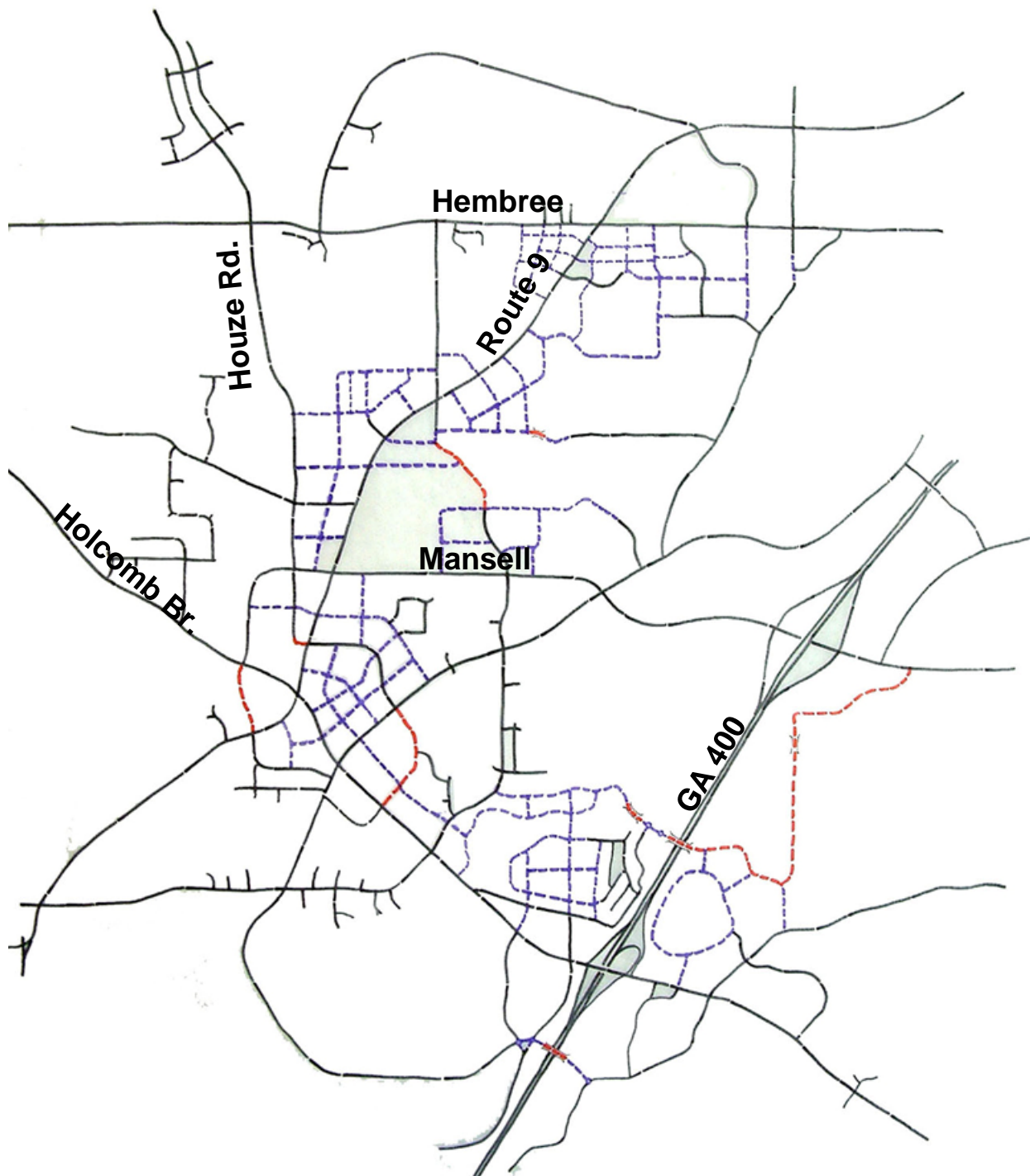
# **Link Transportation & Redevelopment**

## New Network

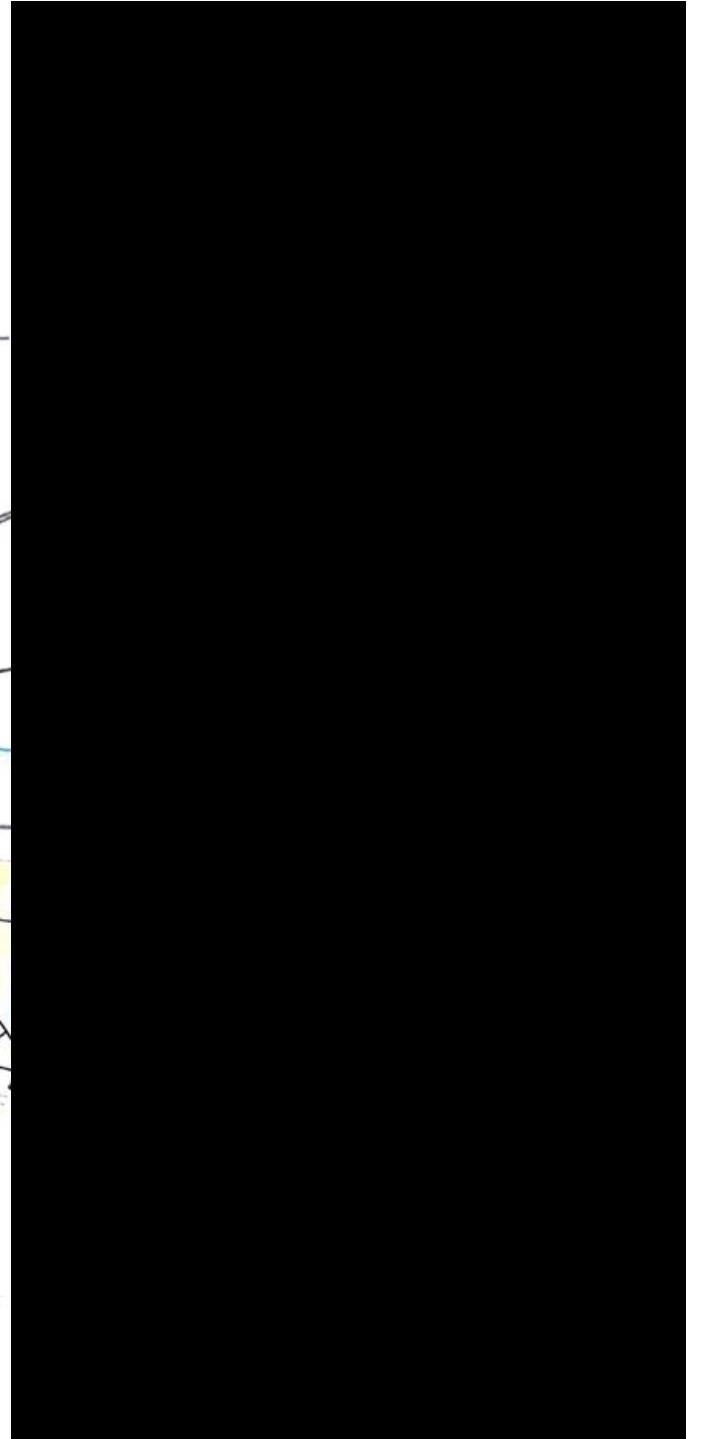
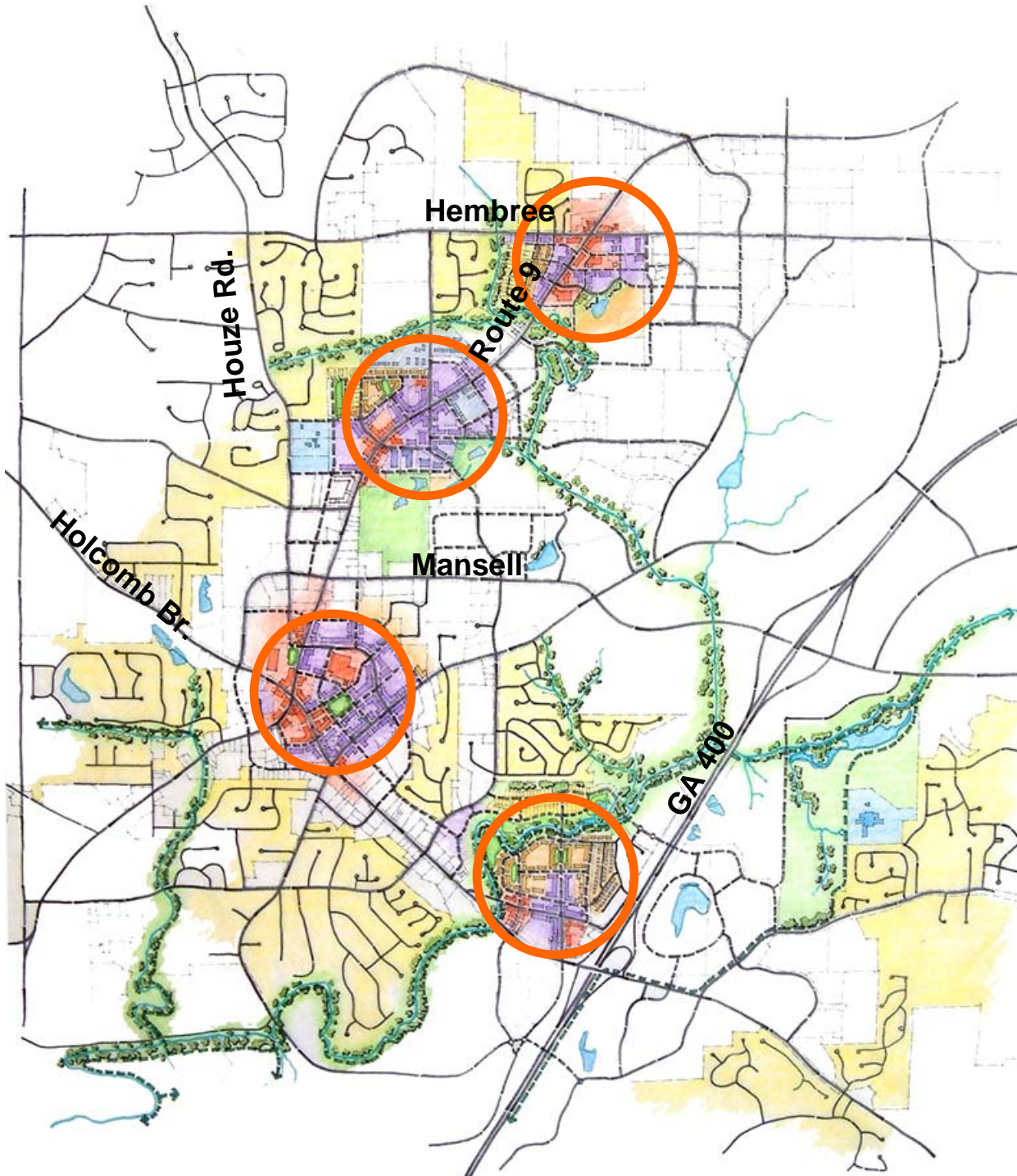








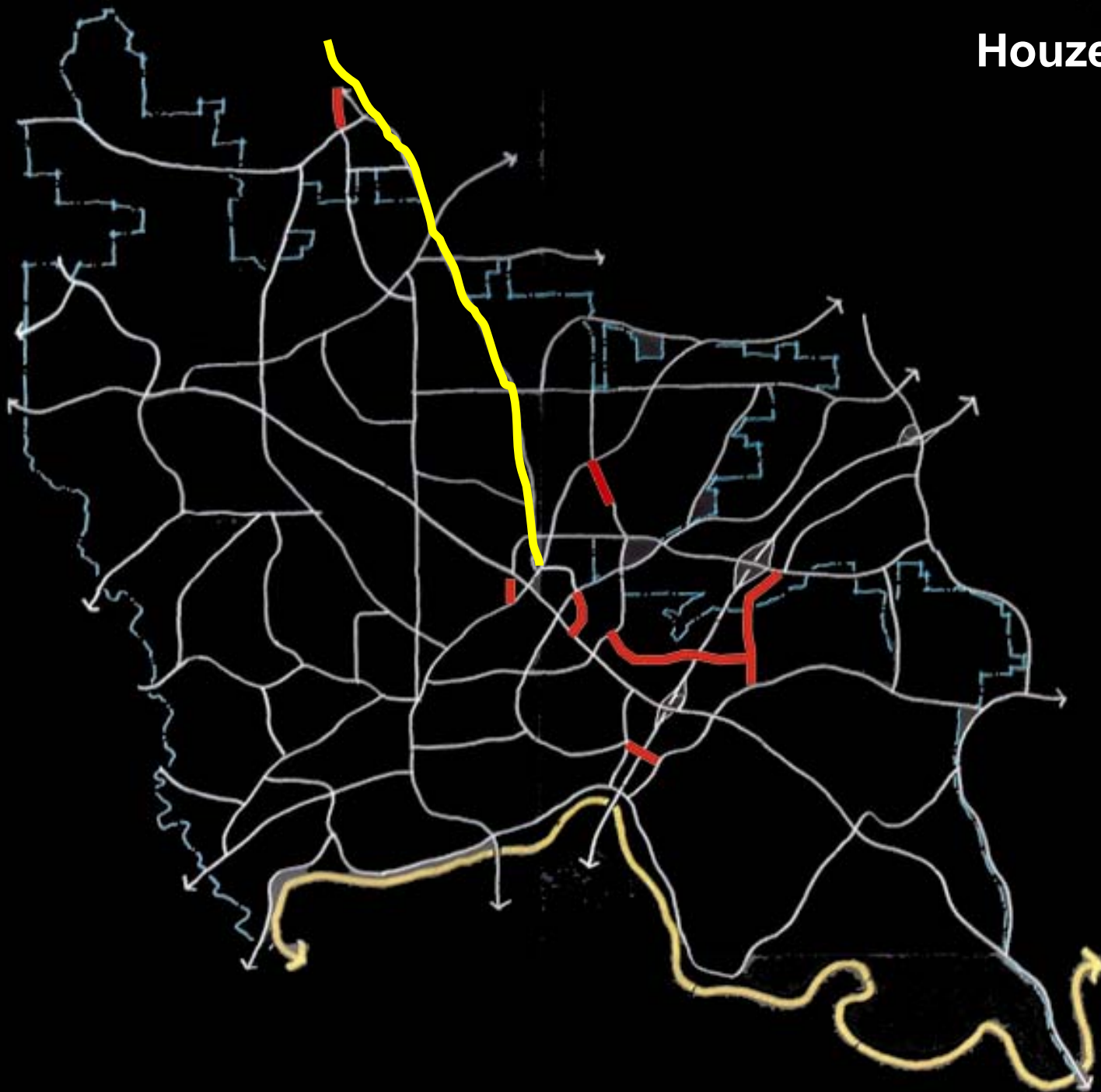




**“Hot Issues”**

**Houze Road**

# Houze Road



**Houze Road**

46,000 VPD

6 lanes (60,000) VPD Capacity

The map shows a network of roads with a specific section of Houze Road highlighted in red. A red diamond marker is placed on this section, with a red dashed line extending from it to the left, labeled '46,000 VPD'. Another red diamond marker is placed on the same section, with a red dashed line extending to the right, labeled '6 lanes (60,000) VPD Capacity'. A green dashed line with arrows points from the red section towards a central red dot on the map.

**Houze Road**

46,000 VPD

6 lanes (60,000) VPD Capacity

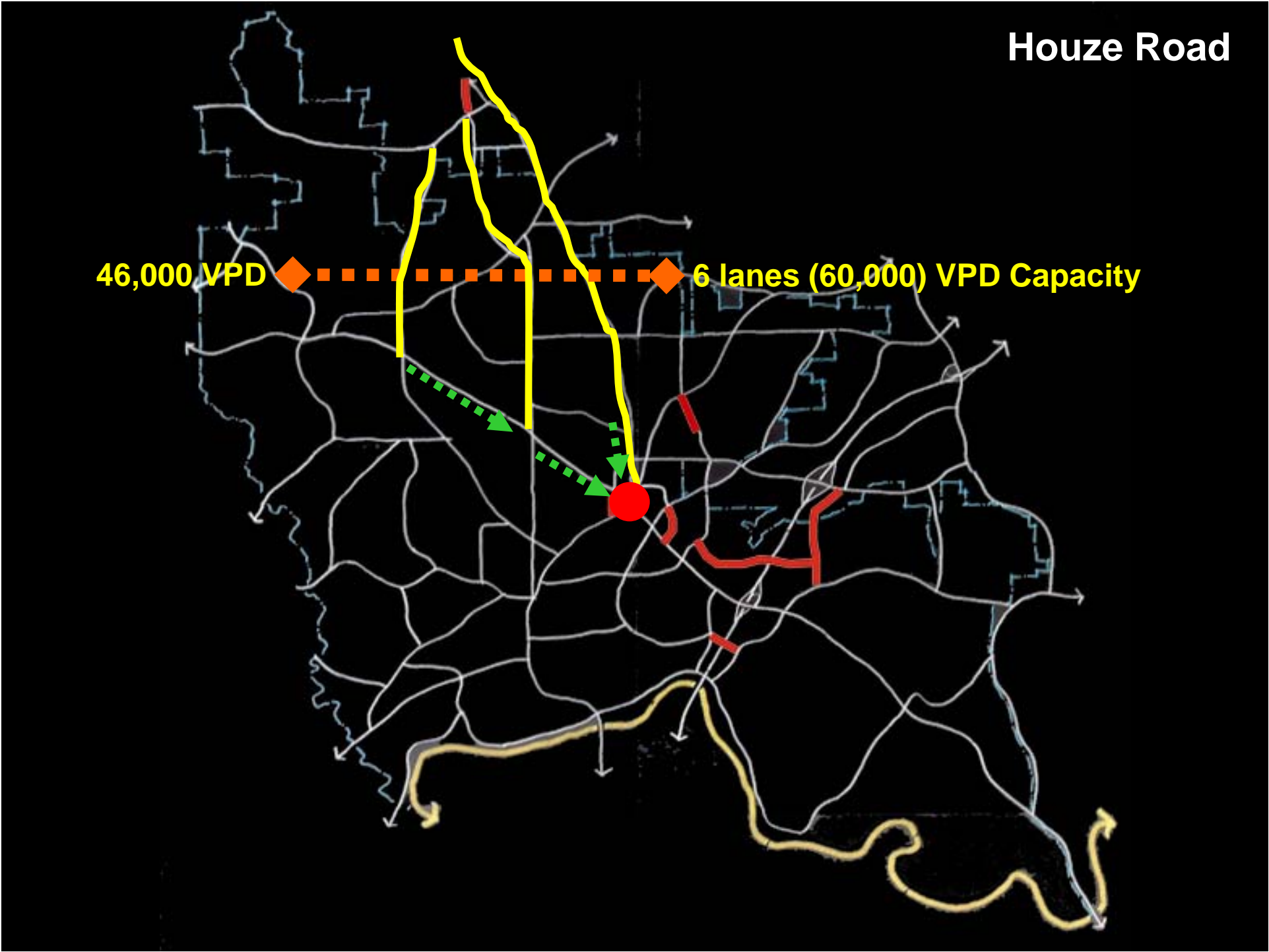
The map shows a network of roads with a specific section highlighted in red. A red dot marks a location on this section. A horizontal dashed line with red diamonds at its ends spans the width of the map, with the text '46,000 VPD' on the left and '6 lanes (60,000) VPD Capacity' on the right. Green dashed arrows point from the left towards the red dot. The map also shows a winding road at the bottom and several other road segments in blue.

**Houze Road**

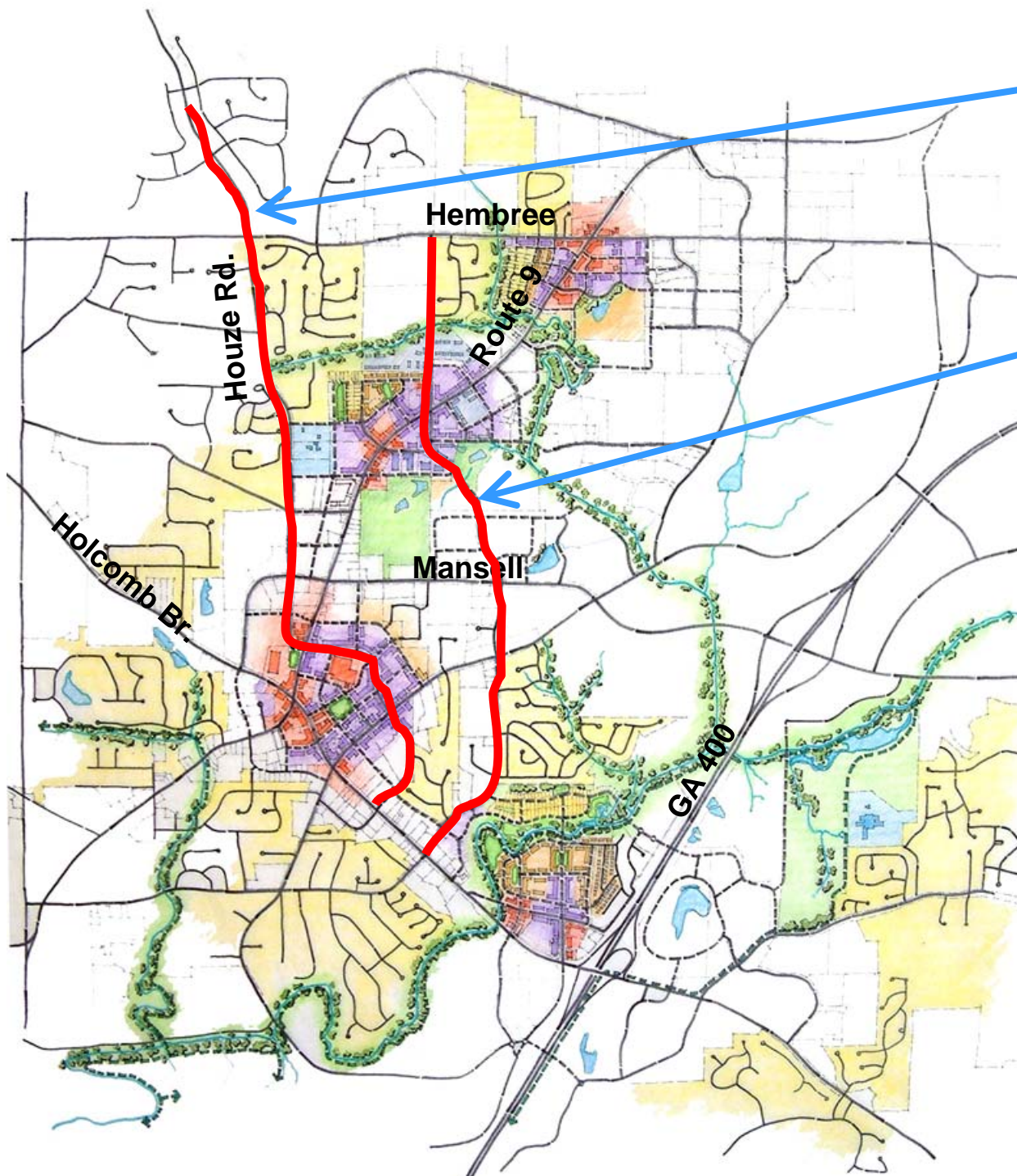
46,000 VPD

6 lanes (60,000) VPD Capacity

The map shows a network of roads with a specific section highlighted in red. A red dot marks a location on this section. A horizontal dashed line with red diamonds at its ends spans the width of the map, with the text '46,000 VPD' on the left and '6 lanes (60,000) VPD Capacity' on the right. Green dashed arrows point from the left towards the red dot. The map also shows a winding road at the bottom and several other road segments in blue.







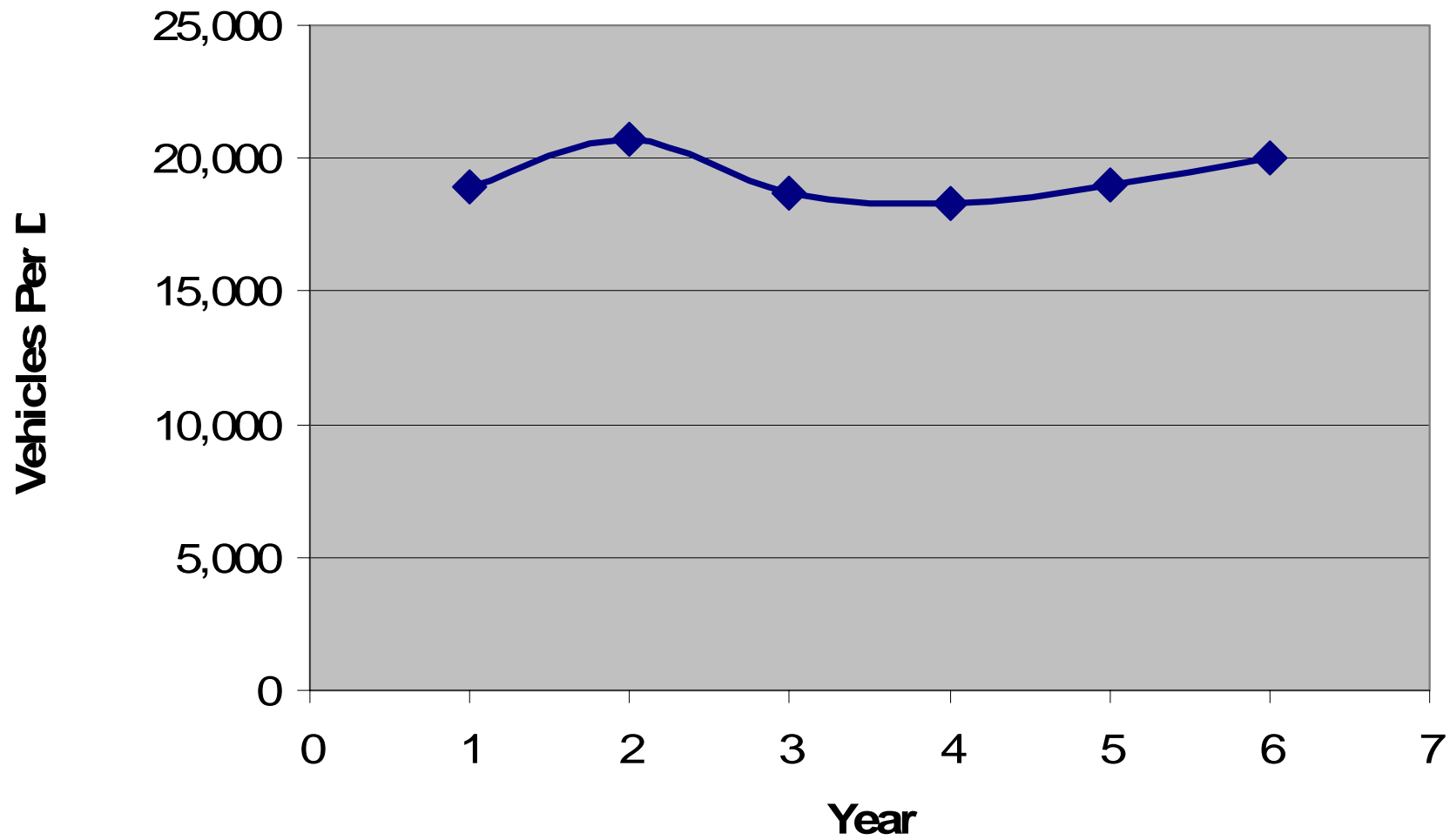
Step 1: Define Houze Road's Final Design = 2/3 Lane Section

Step 2: Build Parallel Facility to Accommodate Growth

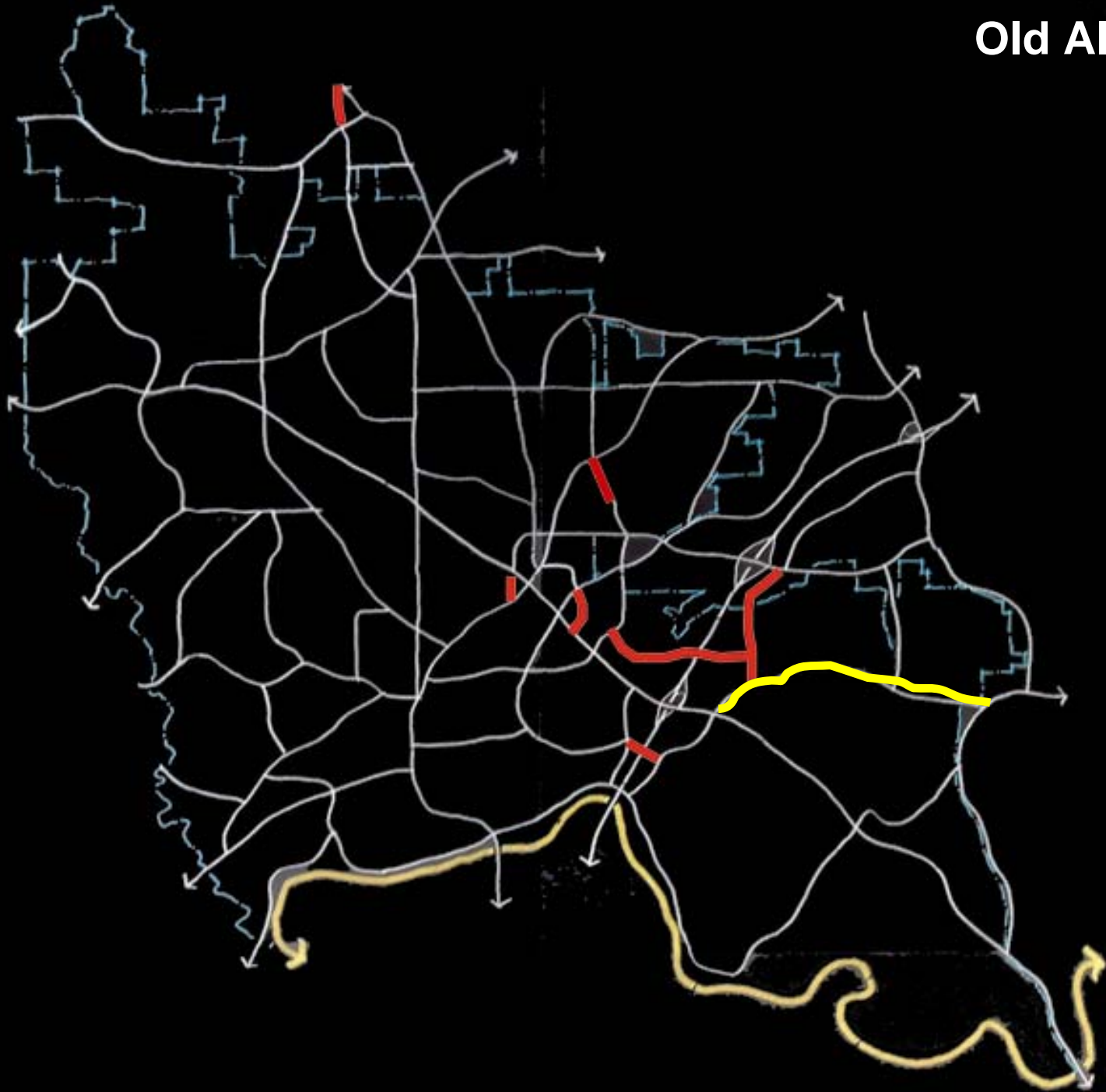
**“Hot Issues”**

**Old Alabama**

## Old Alabama Traffic Volumes

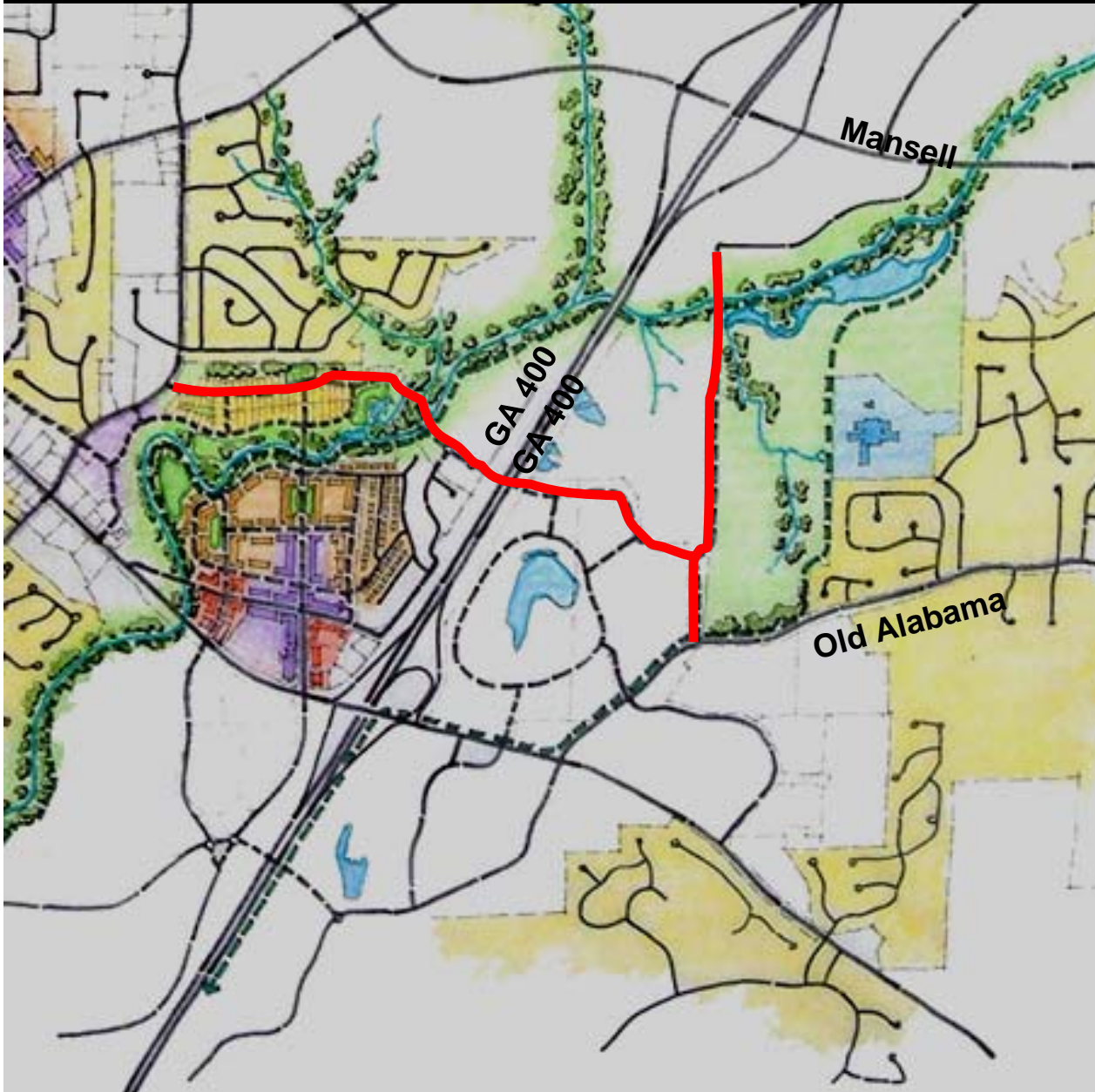


# Old Alabama





# Old Alabama



Step 1: Define Old Alabama Road's Final Design = 3 Lane Section

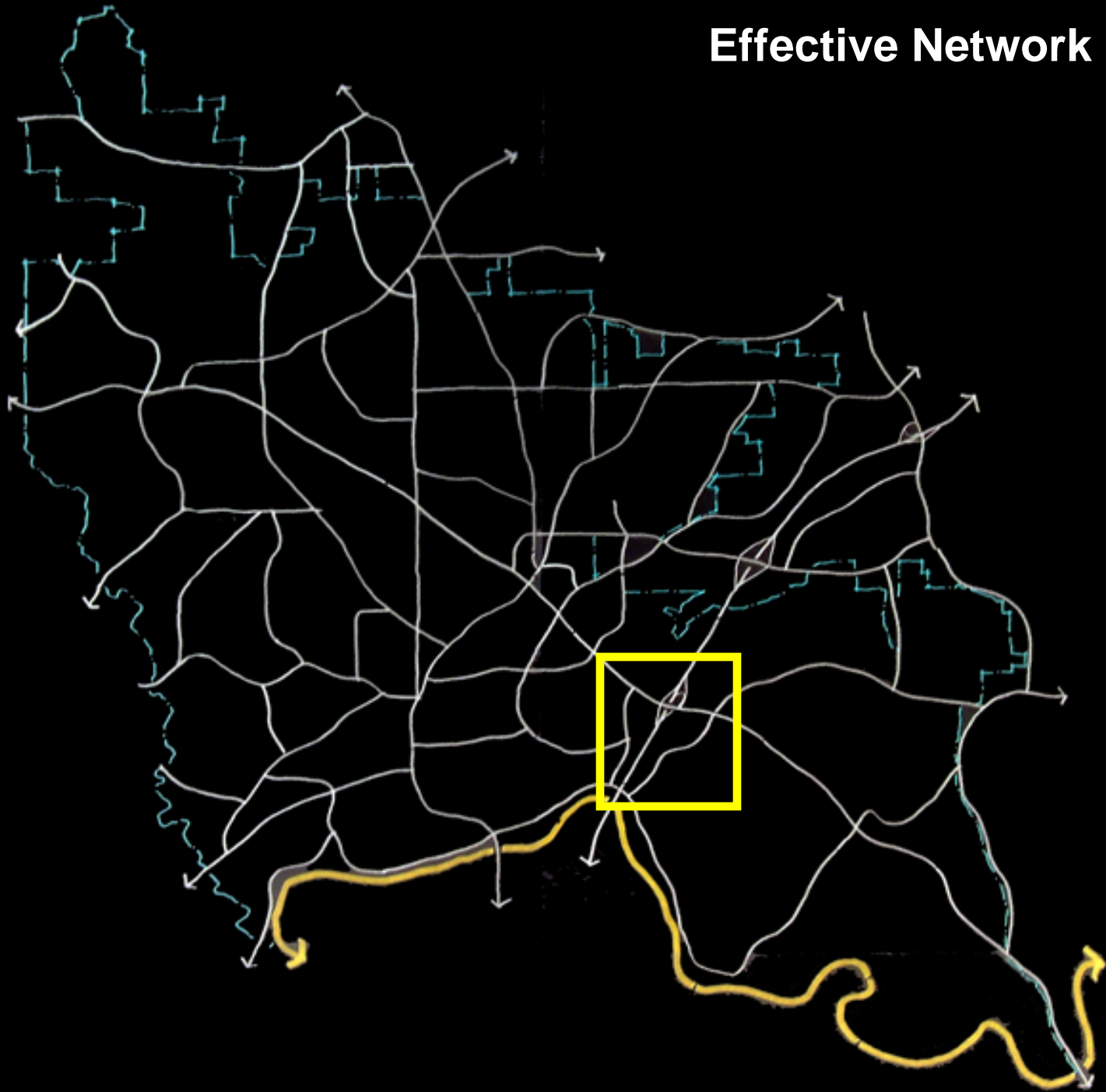
Step 2: Build New Network to Accommodate Growth

**“Hot Issues”**

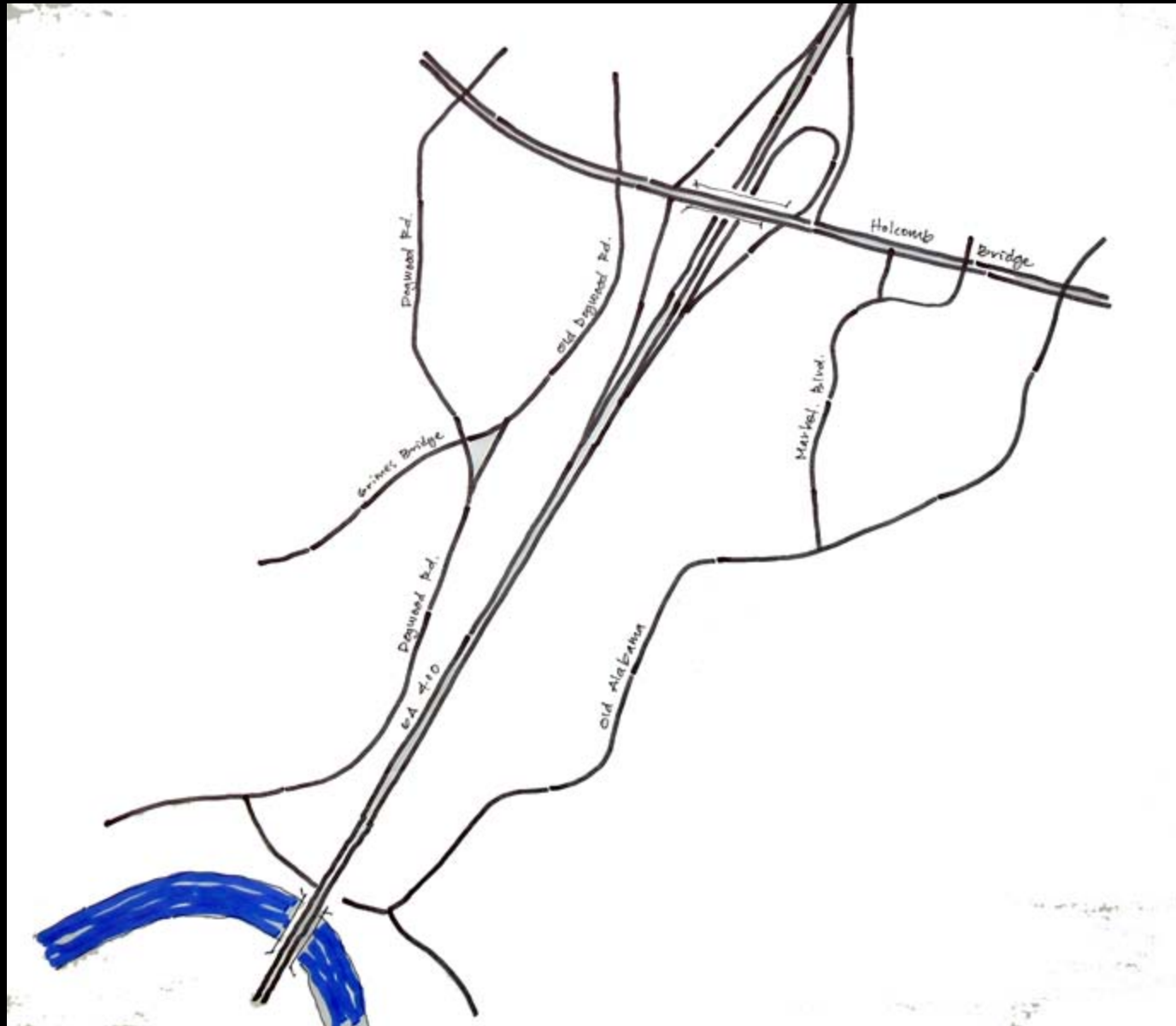
**Holcomb Bridge & 400**



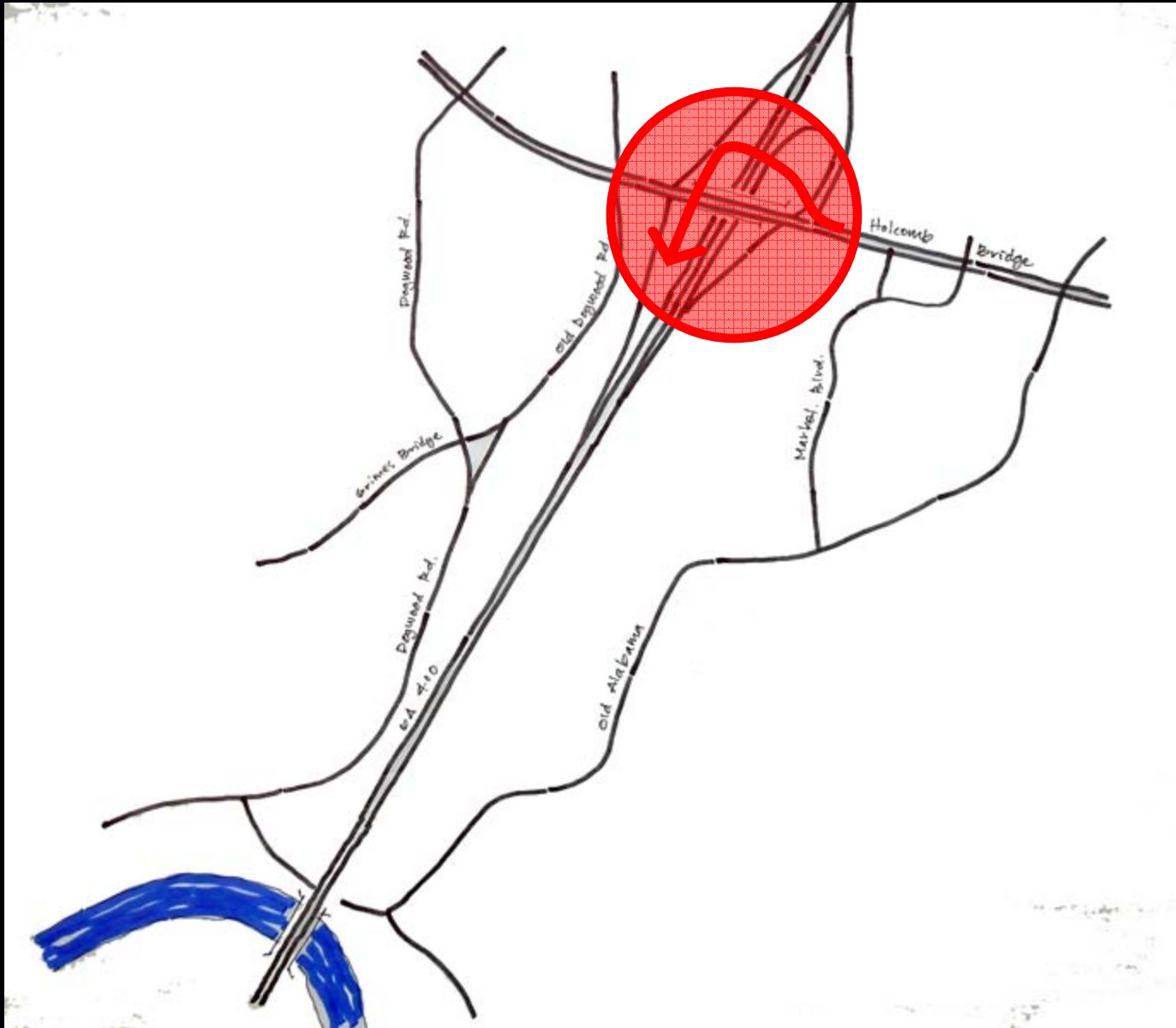
## Effective Network



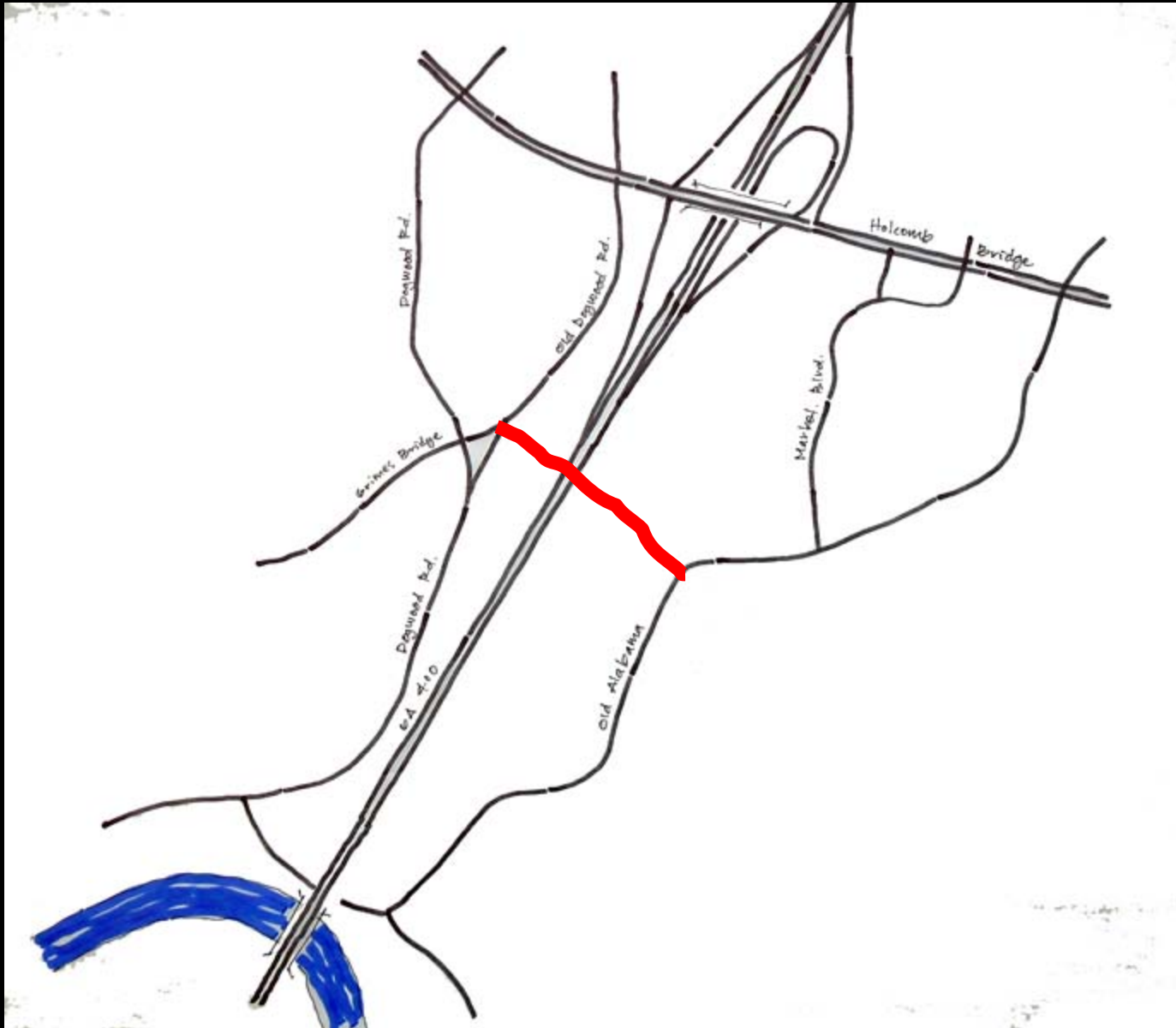
## Holcomb Bridge & 400



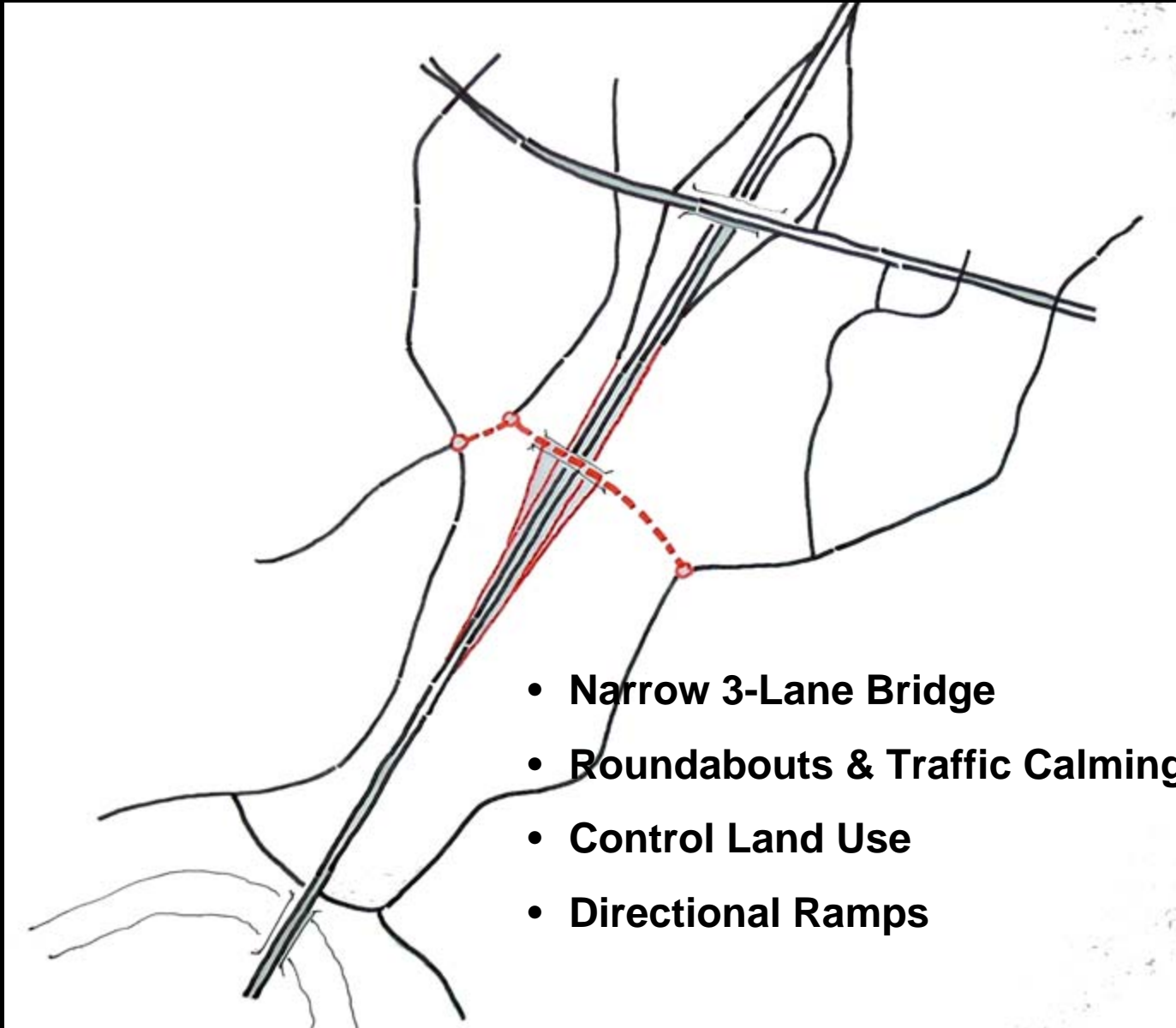
## Option 1: Regional - Interchange Solution



## Option 2: Local Connection



### Option 3: Regionalism on Roswell's Terms





# Woodstock Road & Hardscrabble Road (1993)



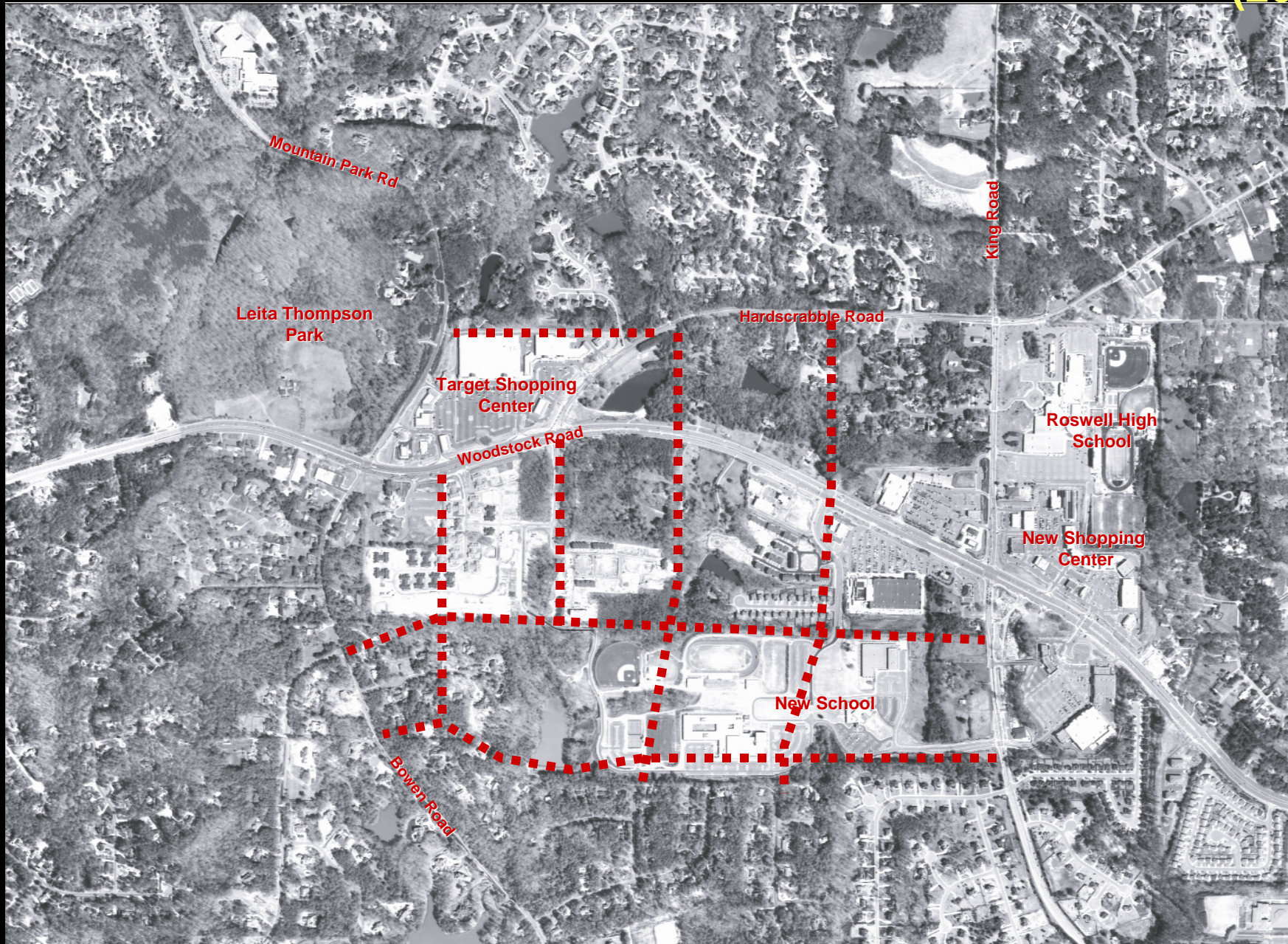


# Woodstock Road & Hardscrabble Road (1993)





# Woodstock Road & Hardscrabble Road (2003)





# Etris Road & Hardscrabble Road (1993)





# Etris Road & Hardscrabble Road (2003)

